



SPECIFICATION FOR APPROVAL

产品规格承认书
Multilayer Ferrite Bead
贴片共模绕线电感

CUSTOMER.

MODEL NO.

MACM1211-102

CUSTOMER'S PART NO.

LILE NO.

DATE.

2021/9/24

REVISION.

A/0

CUSTOMER APPROVE

DATE:

DRAWING

DRAWN BY

CHECK BY

APPROVAL BY

DATE:



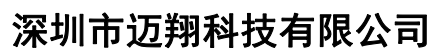
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CERTIFICATION



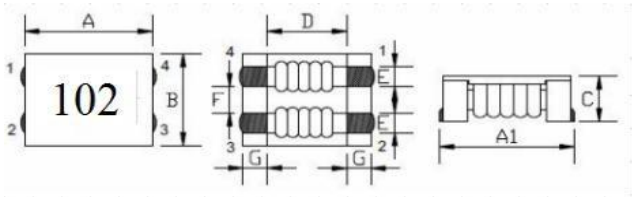
IATF16949 / ISO9001 / ISO14000

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FILE NO.		PART NO.		2021/9/24

1.PRODUCT DIMENSION	UNIT:mm	
	A	12.0±0.5
	A1	12.0±0.5
	B	10.8±0.5
	C	6.4Max
	D	7.0Typ
	E	2.7±0.2
	F	2.5±0.2
	G	2.5±0.2

2.ELECTRICAL REQUIREMENTS

Part Number 型号	Impedance At 100MHZ 阻抗 Z (Ω)		Insulation resistance 绝缘阻抗 IR(MΩ)Min	DC Resistance 直 流电阻 RDC (mΩ)Max	Rated Current 额 定电流 Ir(A)Max	Rated Voltage 额 定电压 VDC(V) max	印字
MACM1211-102	750	1000	10	14	6.0	125	102

3.CHARACTERISTICS

- (1). All test data is based on 25℃ ambient.
- (2). DC current(A)that will cause L0 to drop approximately 30%Typ
- (3). Operating temperature range: -55℃~+125℃
- (4).The part temperature (ambient + temp rise)should not exceed 125℃ under worst case operating conditions. circuit design, component.PWB trace size and thickness,airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the den application



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4.PRODUCT IDENTIFICATION

XXX XXXX X X XXX X

① ② ③ ④ ⑤ ⑥

①.Coilmx Series Name ②.Dimensions

③.General characteristics ④.Tapde in reel 2000pcs/reel

⑤.Typical impedance at 100MHz ⑥.Tolerance: J:±5%,K:±10%,M±20%, S±25%, N±30%.

5.APPLICATION

(1)High frequency circuits of telecommunication.

(2)Mobile phones such as GSM,CDMA,PDC,etc.

(3)Bluetooth.

(4)Other High frequency circuits in general.

6.FEATURES

(1)Monolithic construction yields high reliability.

(2)High self-resonant frequency.

(3)Excellent solderability and heat resistance for either flow or reflow soldering.

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7.可靠性Reliability

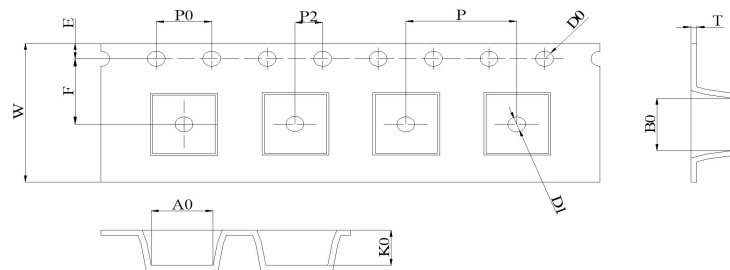
项目Item	规格与需求 Specification and Requirement	测试方法Test Method
可焊性 Solderability test	沾锡面积不得小于95%上锡面 Terminals area must have 95% min solder coverage	上锡升温曲线Solder heat proof: (1) 预热: 160±10℃持续90s Preheating: 160±10℃ for 90 seconds (2) 恒温时段: 245±5℃持续2±0.5s Retention time: 245±5℃ for 2±0.5 seconds
振动测试 Vibration test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1) 振动频率(10Hz 55Hz 10Hz)60s为一个周期 Vibration frequency: (10Hz to 55Hz to 10Hz) in 60 seconds as a period (2) 振动时间 Vibration time: 三维正交坐标系每个方向振动(周期) 循环2小时 Period cycled for 2 hours in each of 3 mutual perpendicular directions (3) 振幅 Amplitude: 1.5 mm Max
冲击测试 Shock test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1) 最大振幅 Peak value: 100G (2) 脉冲波长 Duration of pulse: 11ms (3) 三维正交坐标系每个方向正负方向冲击3次 Times in each positive and negative direction of 3 mutual perpendicular directions
冷热冲击 Thermal shock	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)重复以上100个循环Repeat 100 cycle as follow (-55±2℃,30±3分钟) 室温5分钟 (-55±2℃,30±3 minutes) Room temperature,5 minutes (+125±2℃,30±3分钟) 室温5分钟 (+125±2℃,30±3 minutes) Room temperature,5 minutes (2)恢复: 测试于标准条件下恢复48+4/-0小时 (参考注释1) Recovery:48+4/-0 hours of recovery under the standard condition after the test. (see Note1)
耐高温测试 High temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)环境条件: 85±2℃ Environment condition : 85±2℃ 应用电流: 额定电流 Applied current: Rated current (2)持续时间: 1000+4/-0 小时 (参考注释1) Duration:1000+4/-0 hours (see Note1)
耐湿测试 Humidity Resistance	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)环境条件: 60±2℃ Environment condition : 60±2℃ 湿度: 90~95% Humidity:90~95% 应用电流: 额定电流 Applied current: Rated current (2)持续时间: 1000+4/-0 小时 (参考注释1) Duration:1000+4/-0 hours (see Note1)
低温存放测试Low temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)存储温度 Store temperature -55±2℃下存放 1000+4/-0 小时 -55±2℃for total 1000+4/-0 hours
高温存放测试High temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break	(1)存储温度 Store temperature +125±2℃下存放 1000+4/-0 小时 +125±2℃for total 1000+4/-0 hours

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8、包装 Packaging

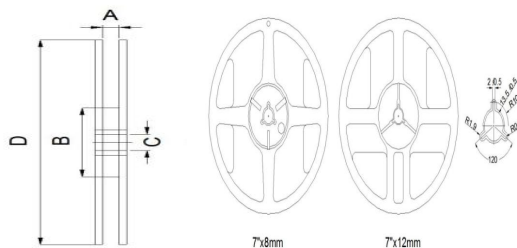
8.1、尺寸 Dimensions

8.1.1 包装料带尺寸 Tape packaging dimensions



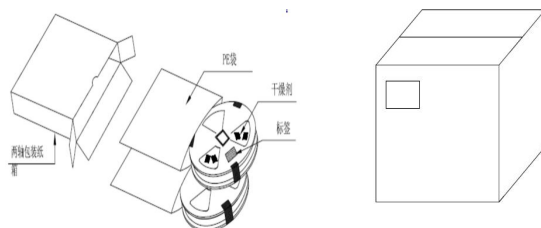
W	A0	B0	K0	P	P2	F	E	D0	P0	T
12.00 ±0.20	3.45 ±0.10	4.90 ±0.10	3.05 ±0.10	8.00 ±0.10	2.00 ±0.10	5.50 ±0.05	1.75 ±0.10	1.50 +0.1/-0	4.00 ±0.05	0.35 ±0.05

8.1.2 卷轴尺寸 Reel dimensions



项目 7"x8"	尺寸 (mm)	项目 7"x12"	尺寸 (mm)
A	9.0±0.5	A	13.5±0.5
B	60.0±2.0	B	60.0±2.0
C	13.5±0.5	C	13.5±0.5
D	178.0±2.0	D	178.0±2.0

8.1.3 外箱尺寸 Carton dimensions

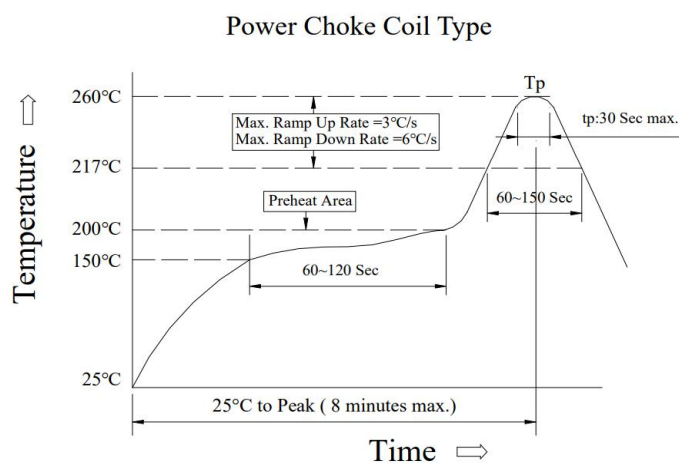


项目	数量 (K)
1卷轴	0.5
1内箱	
1外箱	

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Reflow curve

※ Reflow Profile



1. Reflow Soldering Method

Reflow Soldering	Tp:255~260°C	Max.30 seconds (tp)
	217°C	60~150 seconds
Pre-Heat	150 ~ 200°C	60~120 seconds
Time 25°C to peak temperature	8 minutes max.	

2. Soldering iron method : 350±5°C Max.3 seconds.